

REMARKS

Response to Rejection Under 35 U.S.C. 102(b)

The examiner rejected Claims 1-16 under 35 U.S.C 102(b).

Then Claims 10-16 are canceled. Claim 1 is amended like below according to the points which the examiner pointed in Detailed Action of Final Rejection..

10 1.Column 1, line 56-59 in the US005924096A

"One synchronization method sends a list of cached database object identifiers and corresponding timestamps or sequence numbers from the caching node to a master node which holds a master replica."

i). The examiner has pointed in page 3, line 17-18 in the Final Rejection like below for the quotation of column 1, line 56-59 in the US005924096A indicated above.

or meta data of said database
management systems,

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A topology administration server does not take distributed databases inside the domain as a black box, but may take meta data of a database as virtual clustered database like said a black box.

Therefore "metadata" quoted by the examiner on page 3, line 17 in the Final Rejection does not correspond to "list" in the quotation of column 1, line 56-59 in the US005924096A indicated above at all.

This phrase is only example of information of said database management systems, so "or meta data of said database management systems" is deleted.

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ii). The examiner has pointed in page 4, line 10-17 in the Final Rejection like below for the quotation of column 1, line 56-59 in the US005924096A indicated above.

and said topology administration server comprises:
storage for topology information, which stores topology information,
including certain information correlating a database object identifier,

which is information
for identifying a database object administered
by said database administration apparatus,
with an identifier
of a database administration apparatus
for identifying a database administration
apparatus administering the database object;

Herein in my invention, the framework of claim 1 is below.

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A distributed database system comprising:
plurality of administration domains,
wherein
each of said administration domains comprising:
one or more database administration apparatuses;
a topology administration server;
and said client computers;

So in my invention, there is no meaning if caching nodes and a master node
20 which holds a master replica exist in the domain or not, but there is meaning that the database administration apparatus information of which the a database object identifier identifies the database administration apparatus as a topology information which is held by a topology administration server of the database domain which can communicate with other database domains which have topology administration servers.

Therefore "master node" in the Draper's is not corresponding to database administration apparatus " at all.

2. Column 3, line 1-4 in the US005924096A

"The index can be used to efficiently create a list of recent events, which can
30 then be sent to a master node to obtain the information needed to update a local cache of database objects or records."

i). The examiner has pointed in page 3, line 2-3 in the Final Rejection like below for the quotation of column 3, line 1-4 in the US005924096A indicated above.

one or more database administration apparatuses,

which administers database allocated
on said
database administration apparatuses
themselves

Herein in my invention, the framework of claim 1 is below.

A distributed database system comprising:
plurality of administration domains,
10 wherein
each of said administration domains comprising:
one or more database administration apparatuses;
a topology administration server;
and said client computers;

There is no idea that the master node and cache nodes are placed on the distributed database system domain by domain which I wrote in my invention. In the domain, the master node and some cache nodes relation may be placed, but the distributed database system domain by domain which I wrote in my invention treat 20 that types of distributed database system which has the master node and some cache nodes relation as a virtual clustered database, and database domains communicate their information as one database system information each other. Herein said one database system may one real database system or one virtual clustered database system which comprises the master node and some cache nodes. Furthermore the relation of each database domain is not master slave system model but peer to peer system model.

Therefore "master node" in the Draper's is not corresponding to database administration apparatus at all.

30 ii). The examiner has pointed in page 6, line 18-19 in the Final Rejection like below for the quotation of column 3, line 1-4 in the US005924096A indicated above.

a caching unit for a database object,
which caches a database object received
by the receiver

for a database object:

There is no idea that the master node and cache nodes are placed on the distributed database system domain by domain which I wrote in my invention. In the domain, the master node and some cache nodes relation may be placed, but the distributed database system domain by domain which I wrote in my invention treat that types of distributed database system which has the master node and some cache nodes relation as a virtual clustered database, and database domains communicate their information as one database system information each other. Herein said one
10 database system may one real database system or one virtual clustered database system which comprises the master node and some cache nodes. Furthermore the relation of each database domain is not master slave system model but peer to peer system model.

Furthermore this portion of claim1 above is amended like below to change word "cache" to word "data" and word "caching" to word "storing" to make word "cache" and word "caching" be correct words because verb "cache" is used as "holds data in just near place" and word "caching" is used as "holding data in just near place" also in Japanese sometimes.

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and a storing unit for a database object,
which stores a database object received
by the receiver
for a database object:

Therefore "cache of database objects" in the Draper's is not corresponding to "stores a database object" between database domains at all.

3. Column 3, line 13-16 in the US005924096A

30 "one cache may add a data item to the cache each time an add event occurs, while another cache only changes the cache when a modify event occurs."

i). The examiner has pointed in page 4, line 22 - page 5, line 1-3 in the Final Rejection like below for the quotation of column3, line 13-16 in the US005924096A indicated above with "this cache request is necessary for effecting the division of tasks between caches described in column 3, line 13-16".

a receiver for a cache request,
which receives a cache request
including said database object identifier transmitted
from said client computers
for caching a database object identified
by said database object identifiers;

This portion of claim1 above is amended like below to change word "cache" to
10 word "data" and word "caching" to word "retrieving" to make word "cache" and word
"caching" be correct words because noun "cache" is used as "data which is in just near
place" and word "caching" is used as "retrieving to just near place" also in Japanese
sometimes.

a receiver for a data request,
which receives a data request
including said database object identifier transmitted
from said client computers
for retrieving a database object identified
by said database object identifiers;

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Therefore it is not necessary to effect the division of tasks between caches at all
because there are no caches.

ii). The examiner has pointed in page 5, line 11-14 in the Final Rejection like below for
the quotation of column 3, line 13-16 in the US005924096A indicated above with "this
cache request is necessary for effecting the division of tasks between caches described in
column 3, line 13-16".

30 a transferring unit for a cache request,
which transfers said cache request
to the database administration apparatus identified
by the identifier
of the database administration apparatus,
in which said identifier is acquired
by said acquisition unit

for an identifier
of a database administration apparatus;

This portion of claim1 above is amended like below to change word "cache" to word "data" to make word "cache" be correct words because noun "cache" is used as "data which is in just near place".

a transferring unit for a data request,
which transfers said data request
10 to the database administration apparatus identified
by the identifier
of the database administration apparatus,
in which said identifier is acquired
by said acquisition unit
for an identifier
of a database administration apparatus;

Therefore it is not necessary to effect the division of tasks between caches at all because there are no caches.

20 iii). The examiner has pointed in page 6, line 7-8 in the Final Rejection like below for the quotation of column 3, line 13-16 in the US005924096A indicated above with "this cache request is necessary for effecting the division of tasks between caches described in column 3, line 13-16".

said computer comprises:
a transmitter for a cache request,
which transfers a cache request,

30 This portion of claim1 above is amended like below to change word "cache" to word "retrieve" to make word "cache" be correct word because word "cache" is used as "fetch data into just near place".

said computer comprises:
a transmitter for a retrieve-request,
which transfers a retrieve-request,

Therefore it is not necessary to effect the division of tasks between caches at all because there are no caches.

iv). The examiner has pointed in page 6, line 12-14 in the Final Rejection like below for the quotation of column 3, line 13-16 in the US005924096A indicated above with "this cache request is necessary for effecting the division of tasks between caches described in column 3, line 13-16".

10 a receiver for a database object,
 which stores the database object returned
 in accordance
 with the transmission
 of the cache-request
 by said transmitter
 for a cache-request;

This portion of claim1 above is amended like below to change word "cache" to word "retrieve" to make word "cache" be correct word because word "cache" is used as
20 "fetch data into just near place".

a receiver for a database object,
which stores the database object returned
in accordance
with the transmission
of the retrieve-request
by said transmitter
for a retrieve-request;

30 Therefore it is not necessary to effect the division of tasks between caches at all because there are no caches.

4. Column 6, line 15-17 in the US005924096A

"Fig5 illustrates several methods of the present invention for managing a distributed database ob objects, records, or other data items 202."

i). The examiner has pointed in page 2, line 19-20 in the Final Rejection like below for the quotation of column 6, line 15-17 in the US005924096A.

A distributed database system comprising:

"a distributed database of object" described in page 2, line 19-20 in the Final Rejection is not assumed that the distributed database is placed on a database domain which is one of database domains connected with network each other, but is placed on non-limited network environment in logically. The distributed database placed on a
10 database domain which is one of database domains connected with network like this presented invention has more efficient from the distributed database placed on one network environment in speed and scalability. Database meta information of the database management system as topology data are exchanged with the topology administrator system placed on border of database domain each other incrementally.

Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from the starting point.

5. Column 8, line 3-5 in the US005924096A

20 "The system 600 includes a master system 602 denoted 'A' and second master system 604 denoted 'B'."

i). The examiner has pointed in page 3, line 11 in the Final Rejection like below for the quotation of column 8, line 3-5 in the US005924096A.

a topology administration server

"The system 600 includes a master system 602" replicates data in the database itself, but "a topology administration server" does not share data itself, but meta data of
30 the database is shared by topology administrator system which is placed on each database domains. The system 600 may be placed on a database domain which is connected to other database domains via network.

Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

ii). The examiner has pointed in page 4, line 1-3 in the Final Rejection like below for the quotation of column 8, line 3-5 in the US005924096A.

and said client computers,
which are allocated on the network
beneath said database
administration apparatuses administered
with said topology administration server;

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" The system 600 includes a master system 602 denoted 'A' and second master system 604 denoted 'B'." replicates data in the database itself, but "a topology administration server" does not share data itself, but meta data of the database is shared by topology administrator system which is placed on each database domains. The system 600 may be placed on a database domain which is connected to other database domains via network.

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Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

iii). The examiner has pointed in page 4, line 6-7 in the Final Rejection like below for the quotation of column 8, line 3-5 in the US005924096A.

wherein
said topology administration servers exchange their topology information each other,

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" The system 600 includes a master system 602 denoted 'A' and second master system 604 denoted 'B'." replicates data in the database itself, but "a topology administration server" does not share data itself, but meta data of the database is shared by topology administrator system which is placed on each database domains. The system 600 may be placed on a database domain which is connected to other database domains via network.

Therefore Draper's Distributed database system and the distributed database

system described in the presented invention is different system from at the starting point.

iv). The examiner has pointed in page 5, line 4-8 in the Final Rejection like below for the quotation of column 8, line 3-5 in the US005924096A.

an acquisition unit,
for an identifier of a database administration apparatus,
which acquires a corresponding identifier
of a database administration apparatus
from said storage
for topology information
based on the database
object identifier included
in the data request received
by said receiver
for a data request;

" The system 600 includes a master system 602 denoted 'A' and second master system 604 denoted 'B'." replicates data in the database itself, but "a topology administration server" does not share data itself, but meta data of the database is shared by topology administrator system which is placed on each database domains. The system 600 may be placed on a database domain which is connected to other database domains via network.

Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

v). The examiner has pointed in page 6, line 2-4 in the Final Rejection like below for the quotation of column 8, line 3-5 in the US005924096A.

an exchanging unit for topology information,
which exchanges topology information
with the other topology administration server
administrating the other administration

domain communicable via network;

" The system 600 includes a master system 602 denoted 'A' and second master system 604 denoted 'B'." replicates data in the database itself, but "a topology administration server" does not share data itself, but meta data of the database is shared by topology administrator system which is placed on each database domains. The system 600 may be placed on a database domain which is connected to other database domains via network.

10 Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

6. Figure 6 and Column 8, line 11-12 in the US005924096A

"The system 600 also includes two client caches 608, 610, which reside on clients 110. "

i). The examiner has pointed in page 3, line 6-9 in the Final Rejection like below for the quotation of column 8, line 11-12 in the US005924096A.

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themselves or client computers
wherein

client computers are comprising:
at least one or more CPU,
and main memories,
and one or more
network Information cards;

on the network

in said administration domain;

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Draper's client computers are connected to Master Systems directly, but the client computers of which described in the invention presented are available to be connected with both Topology administration server 109 or Database administration apparatus 108 on Fig.1 of this application.

ii). The examiner has pointed in page 4, line 1-3 in the Final Rejection like below for the

quotation of column 8, line 11-12 in the US005924096A.

and said client computers,
which are allocated on the network
beneath said database
administration apparatuses administered
with said topology administration server;

10 Draper's client computers are connected to Master Systems directly, but the
client computers of which described in the invention presented are available to be
connected with both Topology administration server 109 or Database administration
apparatus 108 on Fig.1 of this application.

7. Column 8, line 46-50 in the US005924096A

"a cache site 608 or 610 can send a request to the master system 602 or 604 to
get a list of the most recent events that occurred on data items 202 since the last time
the cache made inquiry. The cache's request can specify the event types that should be
returned."

20 i). The examiner has pointed in page 7 line 1-3 in the Final Rejection like below for the
quotation of column 8, line 46-50 in the US005924096A.

and said database management system comprises:
a receiver for a cache request,
which receives the cache request transferred
by the topology administration server;

"cache request" is changed to "retrieve-request".

30 and said database management system comprises:
a receiver for a retrieve-request,
which receives the retrieve-request transferred
by the topology administration server;

In the Draper's distributed database system, a cache site 608 or 610 can send a
request to the master system 602 or 604 to get a list of the most recent events that

occurred on data items 202 since the last time the cache made inquiry. The cache's request can specify the event types that should be returned. In the database system of this application can treat Draper's distributed database in the database domain as clustered database system which seems to be one database system as virtual database systems, which is connected to other database domains and the database domains communicate each other.

Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

8. Column 8, line 50-54 in the US005924096A

"This allows, for example, one cache to add data items 202 to the cache each time an add event occurs while another cache may only update data items 202 in the cache when a modify event occurs."

i). The examiner has pointed in page 7 line 7-9 in the Final Rejection like below for the quotation of column 8, line 50-54 in the US005924096A.

20 and a copy and transmission unit for a database object,
which copies and transmits the database object
in accordance
with the cache request received
by the receiver for a cache request.

"cache request" is changed to "retrieve-request".

30 and a copy and transmission unit for a database object,
which copies and transmits the database object
in accordance
with the retrieve-request received
by the receiver for a retrieve-request.

In the database system of this application can treat Draper's distributed database in the database domain as clustered database system which seems to be one database system as virtual database systems, which is connected to other database

domains and the database domains communicate each other.

Therefore Draper's Distributed database system and the distributed database system described in the presented invention is different system from at the starting point.

CONCLUSION

In sum, all pending claims are allowable.

The examiner is invited to contact the applicant at the telephone or e-mail
10 provided below if in need of further information.

Reconsideration and favorable action are solicited.

Respectfully submitted,
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